

ABSTRACT

An amplification apparatus that has a distortion detection loop
5 that detects distortion components contained in an amplified signal to be
amplified that is amplified by an amplifier 3, and a distortion removal loop
that removes distortion components from the amplified signal, using the
distortion components detected by the distortion detection loop, combines a
reference signal (pilot signal) with the signal to be amplified, and performs
10 control relating to distortion compensation, using said reference signal, to
provide improved efficiency with respect to a configuration to perform control
relating to distortion compensation, using a reference signal. A signal to be
amplified is detected by amplification signal detection means 11 ~ 13 and 21,
and when it is detected by the amplification signal detection means that there
15 is no input of a signal to be amplified, reference signal control means 21, 15
perform control to effect non-output of the reference signals.